

Sheet #: 1

Telescope: 61"

Focus: 430

Iris: 30

Tailpiece:

Balance:

Frame prefix: 42P

Date: Sun Nov 14/02

Humidity: 90

Temp: 30/32

Guidepoint: 967.3 1068

Observers: Fink, Remy

| Exp. # | Object   | Exp. time | Filter (slit) | Counts: Peak/Phot | UT time Start | RA $\alpha$ | Dec $\delta$ | SecZ | Comments: seeing, moon, LHA, VME crashes, clouds, etc. |
|--------|----------|-----------|---------------|-------------------|---------------|-------------|--------------|------|--|
| 001    | 4-2      | 30        | 0.5           | 336 / 150         | 5:55:26       | 19:00:00.5  | -04:21:16    | 2.02 | PA<br>103.55 S21                                       |
| 002    | "        | 120       | "             | 1100 / 200        | 5:42          | 01.7        | 04 21 28.7   | 2.65 | PA<br>141.01 S26 3-20 dual (R.2.92)                    |
| 003    | RS 7102  | 1.0       | 1.0           | 1400 / 20K        | 5:13          | 18:55:10.8  | +32 50 04    | 2.82 | PA<br>15.24 04.2                                       |
| 004    | "        | 2.0       | "             | 30K               |               |             |              | 2.85 |  |
| 005    | "        | 2.0       | "             | 30K               |               |             |              | 2.87 |  |
| 006    | "        | 2.0       | "             | 30K               |               |             |              | 2.90 |  |
| 007    | "        | "         | "             | 27K               | 5:19          |             |              | 2.92 |  |
| 008    | "        | "         | "             | 26K               | 5:19          |             |              | 2.95 |  |
| 009    | "        | "         | "             | 23K               | 5:20          |             |              | 2.18 |  |
| 010    | BS 7272  | 5.0       | "             | 20K               | 5:26          | 19:07:15.5  | +34 31 09    | 2.74 | PA<br>5.37 04.2  |
| 011    | "        | "         | "             | 20K               | 5:27          |             |              | 2.76 |  |
| 012    | "        | "         | "             | 21K               |               |             |              | 2.78 |  |
| 013    | "        | "         | "             | 22K               | 5:29          |             |              | 2.80 | PA   |
| 014    | RS 8622  | 0.0       | 1.0           | 10K               | 5:25          | 22:36:59.8  | +38 47 21    | 1.14 | PA<br>102.18 82.4                                      |
| 015    | "        | 1.00      | "             | 15K               |               |             |              | 1.14 |  |
| 016    | "        | "         | "             | 18K               | 5:38          |             |              | 1.15 | PA   |
| 017    | "        | "         | "             | 22K               |               |             |              | 1.11 | PA<br>-01.52 -74                                       |
| 018    | RS 5222  | 1.00      | 0.5           | 16K               | 11:33         | 08:49:31.8  | +28 31 05.0  | 1.10 | Full moon w/ht   |
| 019    | "        | 1.00      | "             | 21K               | 11:35         |             |              |      |  |
| 020    | "        | "         | "             | 22K               |               |             |              |      |  |
| 021    | " R Cami | "         | "             | 21K               |               |             |              |      |  |
| 022    | "        | "         | "             | 21K               | 11:38.4       |             |              | 1.09 | PA<br>-01.50 -74                                       |
| 023    | "        | 1.00      | 0.25          | 16K               | 11:43         | 08:49:30.7  | 28 31 04.8   | 1.08 | PA<br>-01.54 -74                                       |
| 024    | "        | "         | "             | 15K               |               |             |              |      |  |
| 025    | "        | "         | "             | 19.2K             |               |             |              |      |  |
| 026    | "        | "         | "             | 18.4              |               |             |              |      |  |
| 027    | "        | "         | "             | 18.6              | 11:44         |             |              | 1.08 | PA<br>-01.41   |
| 028    | "        | 1.00      | 0.0           | 10.5              | 11:57         |             | 06.9         | 1.08 | PA<br>-01.38 -74                                       |
| 029    | "        | "         | "             | 9.9               |               |             |              |      |  |
| 030    | "        | "         | "             | 11.8              |               |             |              |      |  |

mx 5.22

mx 6.74

mx

Telescope: 614

Sheet #: 2

Frame prefix: SP88 F

Date: Sun Nov 01/02

Humidity:

Observers: Fink, Fong

Focus: 967.3  
Iris: 1068  
Tailpiece:  
Balance:

Temp:

Guidepoint:

| Exp. # | Object   | Exp. time | Filter (slit) | Counts: Peak/Phot | UT time Start  | RA $\alpha$ | Dec $\delta$ | SecZ | Comments: seeing, moon, LHA, VME crashes, clouds, etc. |
|--------|----------|-----------|---------------|-------------------|----------------|-------------|--------------|------|--|
| 031    |          | 1.50      | 0.10          | 8.2K<br>10.2      | 11:55          | 36.60       | 31:06.2      | 1.07 | GP   |
| 032    |          | 5.0       | 0.10          | 9.2K              | 11:59          | 36.62       | 07.1         |      | off GP by 1" = 1.07 min 968.375                        |
| 033    | 4th 8 1" | 10.0      | "             | 2.7K<br>2.8K      | 12:02<br>12:04 |             |              | 1.06 | seeing is with 0.5"                                    |
| 034    |          | "         | "             | 3.7K<br>2.0K      | 12:09          | 36.55       | 09.3         | 1.05 | -0.11.24<br>off GP by 1"                               |
| 035    |          | 10.0      | 0.10          | 10.0K             | 12:12          |             |              |      | 969.977  |
| 036    |          | "         | "             | 3.5K<br>1.7K      | 12:15<br>12:17 | 36.70       |              | 1.04 | -0.11.13 PA -21°                                       |
| 037    |          | "         | "             | 5.5K              |                |             |              |      | 970.526  |
| 038    | 4th 8 2" | 40.0      | 0.20          | 0.3K<br>9.2K      | 12:20<br>12:24 | 36.15       | 31:11.5      | 1.03 | seeing zeroing<br>-0.11.03                             |
| 039    | "        | "         | "             | 1.6K<br>3.4K      | 12:25<br>12:27 | 36.53       |              |      |  |
| 040    | "        | "         | "             | 3.4K              |                | 36.57       | 10.1         | 1.03 | 971.601  |
| 041    | 4th 8 3" | 80        | 0.10          | 2.8K<br>2.5K      | 12:29<br>12:32 |             |              |      |  |
| 042    | "        | "         | "             | 9.0K              | 12:35          | 36.48       |              | 1.03 | 972.68   |
| 043    |          | 200       | 0.10          | 9.0K              |                | 36.51       | 11.2         | 1.02 | -0.11.44   |
| 044    | "        | "         | "             | 7.7K<br>6.2K      | 12:40          | 36.42       | 13.5         | 1.01 | center of field seen<br>967-3                          |
| 045    | 4th 8 5" | 200       | 0.10          | 6.7K<br>9.6K      | 12:51          | 36.48       |              | 1.01 |  |
| 046    | "        | "         | "             | 3.2K              | 12:52          | 36.48       |              |      | off GP by 1"   |
| 047    | 4th 8 1" | 10.0      | 0.10          | 3.2K              |                |             |              |      | 966.22   |
| 048    | "        | "         | "             | 2.5K<br>3.3K      | 12:54          |             |              | 1.01 |  |

Tape #1 ↑





Frame prefix: SP98F

Telescope:

Sheet #: 4

Focus:

Iris:

Humidity: 55%

Tailpiece:

Observers: Fish, Feny

Date:

Temp: 24/27

Guidepoint: 967.3, 1068

| Exp. # | Object       | Exp. time | Filter (slit) | Counts: Peak/Phot | UT time Start | RA $\alpha$ | Dec $\delta$ | SecZ | Comments: seeing, moon, LHA, VME crashes, clouds, etc. |
|--------|--------------|-----------|---------------|-------------------|---------------|-------------|--------------|------|--|
| 071    | BC 2022      | 1.5       | 0.50          | 22K               |               | 8:49:36.84  | +28:50:58.1  | 1-16 | -02:14 PA-72.8   |
| 072    | "            | "         | "             | 25K               |               |             |              | 1-15 |  |
| 073    | "            | "         | "             | 28K               |               |             |              |      |  |
| 074    | "            | 1.5       | 0.25          | 12K               | 11:12         | .91         | 59.9         | 1-14 | -02:15   |
| 075    | "            | "         | "             | 16K               |               |             |              |      |  |
| 076    | "            | "         | "             | 15.5K             | 11:14         |             |              | 1-14 |  |
| 077    | "            | 1.5       | 0.10          | 8.2K              | 11:18         | .93         | 59.2         | 1-13 | -02:06   |
| 078    | "            | "         | "             | 7K                |               |             |              |      |  |
| 079    | "            | "         | "             | 7.7K              |               |             |              |      |  |
| 080    | What 1" to E | 8.0       | 0.10          | 48K               | 11:26         | .92         | 59.2         | 1-12 | What 1" to E 968.38                                    |
| 081    | "            | "         | "             | 48K               |               |             |              |      |  |
| 082    | "            | "         | "             | 17K               | 11:28         | .91         | 59.2         | 1-11 |  |
| 083    | What 2" to E | 20.0      | "             | 46K               | 11:31         | .93         | 59.2         | 1-10 | -01:53 969.45  |
| 084    | "            | "         | "             | 18K               |               |             |              |      |  |
| 085    | "            | "         | "             | 14K               | 11:33         |             |              |      |  |
| 086    | What 3" to E | 40.0      | "             | 5K                | 11:36         | 37.02       |              | 1-09 | -01:40 970.53  |
| 087    | "            | "         | "             | 2.7K              |               |             |              |      |  |
| 088    | entire field | "         | "             | 4.5K              | 11:37         | 36.85       |              | 1-06 | Complete covered in 088 probably                       |
| 089    | What 4" to E | 80        | "             | 3K                |               | .93         |              | 1-06 | -01:27 971.60  |
| 090    | "            | "         | "             | 3.4K              | 11:58         |             |              |      |  |
| 091    | "            | "         | "             | 4.7K              | 12:00         |             |              | 1-06 |  |
| 092    | What 5" to E | 200       | "             | 50K               | 12:04         | .94         |              |      | 972.68   |



Telescope: 61" reading  
downstairs upstair

Sheet #: 1

Frame prefix: T198F

Focus: 4300, 4270

Humidity: 80%

Iris: 300 N-3

Tailpiece: N-3

Guidepoint: 967.3, 1068

Temp: 32/36

Date: Nov 1/2  
Sunday Night

Observers: Fink, Fevig

| Exp. # | Object           | Exp. time | Filter (slit) | Counts: Peak/Phot         | UT time Start | RA $\alpha$ | Dec $\delta$ | SecZ | Comments: seeing, moon, LHA, VME crashes, clouds, etc. |
|--------|------------------|-----------|---------------|---------------------------|---------------|-------------|--------------|------|--|
| 0001   | Giacobini-Zinner | 30        | B/Di          |                           |               |             |              |      |  |
| 0002   | BS 3522          | 0.1       | B/Di          | Peak = 14k<br>Flux = 270k | 11:34         | 08:49:36.8  | +28:31:05    | 1.10 | Offset = 0 " in RA<br>Guidepoint: X = 967.3, Y = 1068  |
| 0003   | "                | "         | "             | Peak = 15k<br>Flux = 272k | 11:52         | 08:49:36.62 | +28:31:06.7  | 1.07 | Offset = 0 "   |
| 0004   | "                | "         | "             |                           | 12:01         | 08:49:36.61 | +28:31:07.6  | 1.06 | Offset = 1 "<br>X = 967.3                              |
| 0005   | "                | "         | "             |                           | 12:09         | 08:49:36.76 | +28:31:07.3  | 1.05 | Offset = 2 "<br>X = 968.375                            |
| 0006   | "                | "         | "             |                           | 12:19         | 08:49:36.56 | +28:31:06.7  | 1.04 | Offset = 3 "<br>X = 970.526                            |
| 0007   | "                | "         | "             |                           | 12:30         | 08:49:36.52 | +28:31:05    | 1.03 | Offset = 4 "<br>X = 971.601                            |
| 0008   | "                | "         | "             |                           | 12:38         | 08:49:36.45 | +28:31:04    | 1.02 | Offset = 5 "<br>X = 972.676                            |
| 0009   | "                | "         | "             |                           | 12:49         | 08:49:35.9  | +28:31:03    | 1.01 | Offset = 0 "<br>X = 967.3                              |
| 0010   | "                | "         | "             |                           | 12:55         | 08:49:35.8  | +28:31:02    | 1.01 | Offset = 1 " in other direction<br>X = 966.22          |
| 0011   | "                | "         | "             |                           | 12:59         | 08:49:35.8  | +28:31:01    | 1.01 | Offset = 2 "<br>X = 965.15                             |
| 0012   | "                | "         | "             |                           | 13:04         | 08:49:35.6  | +28:31:00    | 1.01 | Offset = 3 "<br>X = 964.07                             |
| 0013   | "                | "         | "             |                           | 13:08         | 08:49:35.5  | +28:31:00    | 1.01 | Offset = 4 "<br>X = 963.00                             |
| 0014   | "                | "         | "             |                           | 13:14         | 08:49:35.4  | +28:31:00    | 1.00 | Offset = 0 "<br>X = 962.32                             |

Missed these two exposures

